

ROBERT E. BUSHNELL*†
JOSEPH G. SEEGER°
JOHN C. BROSKY°+*
DARREN R. CREW+*
MATTHEW J. LESTINA‡*
SARYADVINDER S. SAHOTA‡*
RICHARD H. STERN°

J1051 U.S. PTO
11/21/01

R. E. BUSHNELL
ATTORNEY AT LAW
1522 K STREET, N.W., SUITE 300
WASHINGTON, D.C. 20005-1202
UNITED STATES OF AMERICA
21 November 2001

INTELLECTUAL PROPERTY LAW
TELEPHONE (202) 408-9040
FACSIMILE (202) 289-7100
FACSIMILE (202) 628-3835
FACSIMILE (410) 747-0022
E-MAIL: REBUSHNELL@AOL.COM

MICHAEL D. PARKER
DANIEL A. GESELOWITZ, Ph.D.
(REG. PATENT AGENTS)

† ADMITTED IN MARYLAND
° ADMITTED IN VIRGINIA
+ ADMITTED IN PENNSYLVANIA
‡ ADMITTED IN NEW YORK
° ADMITTED IN CONNECTICUT
* NOT ADMITTED IN D.C.

Assistant Commissioner for Patents
Washington, D.C. 20231

- ☐ U.S. Postal Service
☐ Via Local Courier
☐ Via International Courier
☐ Via Facsimile No. _____
☐ Via E-Mail Attachment
☐ Please Acknowledge Receipt

J1051 U.S. PTO
09/989650
11/21/01

Attorney Docket: P56617

Sir:

Submitted herewith is the following patent application:

Inventor: 1) HYUN-CHUL SEO

Title: DATA STRUCTURE FOR IMPLEMENTATION OF TRAFFIC
ENGINEERING FUNCTION IN MULTIPROTOCOL LABEL
SWITCHING SYSTEM AND STORAGE MEDIUM FOR
STORING THE SAME

Please find attached hereto an application for patent which includes: Specification and Abstract,
Claims, original Declaration And Power of Attorney, Assignment, and a certified copy of the
foreign priority document identified below:

Verified Showing of Small Entity Status: **NO**

Drawings: Formal drawings, 11 sheets, Figures 1 through 8

Claim of priority under 35 U.S.C. §119: **YES**

** The Republic Of Korea Application No. 2000-74991 filed on 9 December 2000.

FEE (see formula below): CHECKS ARE ENCLOSED (#40643 and #40644)

Basic Fee \$370/740 \$740.00

Additional Fees:

Total number of claims in excess of 20: 10 times \$9/18 . \$180.00

Number of independent claims in excess of 3: 1 times \$42/84 \$84.00

Multiple Dependent Claims \$140/280 \$0.00

An Assignment is likewise enclosed: Recording Fee \$40 . . \$40.00

Filing Non-English specification \$0.00

TOTAL FEES FOR THE ABOVE APPLICATION \$1,044.00

Inventor: 1) HYUN-CHUL SEO

Title: DATA STRUCTURE FOR IMPLEMENTATION OF TRAFFIC
ENGINEERING FUNCTION IN MULTIPROTOCOL LABEL
SWITCHING SYSTEM AND STORAGE MEDIUM FOR
STORING THE SAME

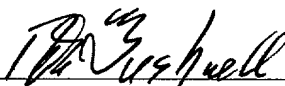
Assistant Commissioner is authorized to charge our Deposit Account No. 02-4943 for any additional charges necessary towards payment of the filing fee for the above-referenced application. Please notify the undersigned attorney of any transaction regarding our Deposit Account.

In view of the above, it is requested that this application be accorded a filing date pursuant to 37 CFR 1.53(b).

Please address all correspondence to:

Robert E. Bushnell
1522 K Street, N.W.
Suite 300
Washington, D.C. 20005

Respectfully submitted,



Robert E. Bushnell
(Registration No. 27,774)
Payor No.: 008-439
Attorney for the Applicant
1522 K Street, N.W.
Suite 300
Washington, D.C. 20005

Telephone: (202) 408-9040
Telefacsimile: (202) 628-0755

REB/sb

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number

11/21/01
J1051 U.S. PTO**FEE TRANSMITTAL**

Patent fees are subject to annual revision.

Complete If Known	
Application Number	To be Assigned
Filing Date	21 November 2001
First Named Inventor	HYUN-CHUL SEO
Examiner Name	To be Assigned
Group/Art Unit	To be Assigned
TOTAL AMOUNT OF PAYMENT	(\$) 1,044.00
Attorney Docket No.	P56617

METHOD OF PAYMENT (check one)	FEE CALCULATION (continued)																																																																																																																																																																																																																																																								
1. <input type="checkbox"/> The Commissioner is hereby authorized to charge indicated fees and credit any over payments to:	3. ADDITIONAL FEES																																																																																																																																																																																																																																																								
Deposit Account Number: <u>02-4943</u> Deposit Account Number: _____	<table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th style="width:10%;">Large Entity</th> <th style="width:10%;">Small Entity</th> <th style="width:10%;">Fee Code</th> <th style="width:10%;">Fee (\$)</th> <th style="width:10%;">Fee Code</th> <th style="width:10%;">Fee (\$)</th> <th style="width:40%;">Fee Description</th> <th style="width:10%;">Fee Paid</th> </tr> </thead> <tbody> <tr> <td><input type="checkbox"/></td> <td></td> <td>105</td> <td>130</td> <td>205</td> <td>65</td> <td>Surcharge-late filing fee or oath</td> <td>\$</td> </tr> <tr> <td><input type="checkbox"/></td> <td></td> <td>127</td> <td>50</td> <td>227</td> <td>25</td> <td>Surcharge-late provisional filing fee or cover sheet</td> <td>\$</td> </tr> <tr> <td></td> <td></td> <td>139</td> <td>130</td> <td>139</td> <td>130</td> <td>Non-English specification</td> <td>\$</td> </tr> <tr> <td></td> <td></td> <td>147</td> <td>2,520</td> <td>147</td> <td>2,520</td> <td>For filing a request for reexamination</td> <td>\$</td> </tr> <tr> <td></td> <td></td> <td>112</td> <td>920*</td> <td>112</td> <td>920*</td> <td>Requesting publication of SIR prior to Examiner action</td> <td>\$</td> </tr> <tr> <td></td> <td></td> <td>113</td> <td>1,840 *</td> <td>113</td> <td>1,840*</td> <td>Requesting publication of SIR after Examiner action</td> <td>\$</td> </tr> <tr> <td></td> <td></td> <td>115</td> <td>110</td> <td>215</td> <td>55</td> <td>Extension for reply within first month</td> <td>\$</td> </tr> <tr> <td></td> <td></td> <td>116</td> <td>400</td> <td>216</td> <td>200</td> <td>Extension for reply within second month</td> <td>\$</td> </tr> <tr> <td></td> <td></td> <td>117</td> <td>920</td> <td>217</td> <td>460</td> <td>Extension for reply within third month</td> <td>\$</td> </tr> <tr> <td></td> <td></td> <td>118</td> <td>1,440</td> <td>218</td> <td>720</td> <td>Extension for reply within fourth month</td> <td>\$</td> </tr> <tr> <td></td> <td></td> <td>128</td> <td>1,960</td> <td>228</td> <td>980</td> <td>Extension for reply within fifth month</td> <td>\$</td> </tr> <tr> <td></td> <td></td> <td>119</td> <td>320</td> <td>219</td> <td>160</td> <td>Notice of Appeal</td> <td>\$</td> </tr> <tr> <td></td> <td></td> <td>120</td> <td>320</td> <td>220</td> <td>160</td> <td>Filing a brief in support of an appeal</td> <td>\$</td> </tr> <tr> <td></td> <td></td> <td>121</td> <td>280</td> <td>221</td> <td>140</td> <td>Request for oral hearing</td> <td>\$</td> </tr> <tr> <td></td> <td></td> <td>138</td> <td>1,510</td> <td>138</td> <td>1,510</td> <td>Petition to institute a public use proceeding</td> <td>\$</td> </tr> <tr> <td></td> <td></td> <td>140</td> <td>110</td> <td>240</td> <td>55</td> <td>Petition to revive - unavoidable</td> <td>\$</td> </tr> <tr> <td></td> <td></td> <td>141</td> <td>1,280</td> <td>241</td> <td>640</td> <td>Petition to revive - unintentional</td> <td>\$</td> </tr> <tr> <td></td> <td></td> <td>142</td> <td>1,280</td> <td>242</td> <td>640</td> <td>Utility issue fee (or reissue)</td> <td>\$</td> </tr> <tr> <td></td> <td></td> <td>143</td> <td>460</td> <td>243</td> <td>230</td> <td>Design issue fee</td> <td>\$</td> </tr> <tr> <td></td> <td></td> <td>144</td> <td>620</td> <td>244</td> <td>310</td> <td>Plant issue fee</td> <td>\$</td> </tr> <tr> <td></td> <td></td> <td>122</td> <td>130</td> <td>122</td> <td>130</td> <td>Petitions to the Commissioner</td> <td>\$</td> </tr> <tr> <td></td> <td></td> <td>123</td> <td>50</td> <td>123</td> <td>50</td> <td>Petitions related to provisional applications</td> <td>\$</td> </tr> <tr> <td></td> <td></td> <td>126</td> <td>180</td> <td>126</td> <td>180</td> <td>Submission of Information Disclosure Statement</td> <td>\$</td> </tr> <tr> <td></td> <td></td> <td>581</td> <td>40</td> <td>581</td> <td>40</td> <td>Recording each patent assignment per property (Times number of properties)</td> <td>\$40.00</td> </tr> <tr> <td></td> <td></td> <td>146</td> <td>740</td> <td>246</td> <td>370</td> <td>Filing a submission after final rejection (37 C.F.R. §1.129(a))</td> <td>\$</td> </tr> <tr> <td></td> <td></td> <td>149</td> <td>740</td> <td>249</td> <td>370</td> <td>For each additional invention to be examined (37 C.F.R. §1.129(b))</td> <td>\$</td> </tr> <tr> <td></td> <td></td> <td colspan="6">Other Fee (specify) _____ \$</td> </tr> <tr> <td></td> <td></td> <td colspan="6">Other Fee (specify) _____ \$</td> </tr> <tr> <td colspan="4"></td> <td colspan="3" style="text-align: center;">** Reduced by Basic Filing Fee Paid</td> <td></td> </tr> <tr> <td colspan="6" style="text-align: right;">SUBTOTAL (3)</td> <td colspan="2" style="text-align: center;">\$40.00</td> </tr> </tbody> </table>	Large Entity	Small Entity	Fee Code	Fee (\$)	Fee Code	Fee (\$)	Fee Description	Fee Paid	<input type="checkbox"/>		105	130	205	65	Surcharge-late filing fee or oath	\$	<input type="checkbox"/>		127	50	227	25	Surcharge-late provisional filing fee or cover sheet	\$			139	130	139	130	Non-English specification	\$			147	2,520	147	2,520	For filing a request for reexamination	\$			112	920*	112	920*	Requesting publication of SIR prior to Examiner action	\$			113	1,840 *	113	1,840*	Requesting publication of SIR after Examiner action	\$			115	110	215	55	Extension for reply within first month	\$			116	400	216	200	Extension for reply within second month	\$			117	920	217	460	Extension for reply within third month	\$			118	1,440	218	720	Extension for reply within fourth month	\$			128	1,960	228	980	Extension for reply within fifth month	\$			119	320	219	160	Notice of Appeal	\$			120	320	220	160	Filing a brief in support of an appeal	\$			121	280	221	140	Request for oral hearing	\$			138	1,510	138	1,510	Petition to institute a public use proceeding	\$			140	110	240	55	Petition to revive - unavoidable	\$			141	1,280	241	640	Petition to revive - unintentional	\$			142	1,280	242	640	Utility issue fee (or reissue)	\$			143	460	243	230	Design issue fee	\$			144	620	244	310	Plant issue fee	\$			122	130	122	130	Petitions to the Commissioner	\$			123	50	123	50	Petitions related to provisional applications	\$			126	180	126	180	Submission of Information Disclosure Statement	\$			581	40	581	40	Recording each patent assignment per property (Times number of properties)	\$40.00			146	740	246	370	Filing a submission after final rejection (37 C.F.R. §1.129(a))	\$			149	740	249	370	For each additional invention to be examined (37 C.F.R. §1.129(b))	\$			Other Fee (specify) _____ \$								Other Fee (specify) _____ \$										** Reduced by Basic Filing Fee Paid				SUBTOTAL (3)						\$40.00	
Large Entity	Small Entity	Fee Code	Fee (\$)	Fee Code	Fee (\$)	Fee Description	Fee Paid																																																																																																																																																																																																																																																		
<input type="checkbox"/>		105	130	205	65	Surcharge-late filing fee or oath	\$																																																																																																																																																																																																																																																		
<input type="checkbox"/>		127	50	227	25	Surcharge-late provisional filing fee or cover sheet	\$																																																																																																																																																																																																																																																		
		139	130	139	130	Non-English specification	\$																																																																																																																																																																																																																																																		
		147	2,520	147	2,520	For filing a request for reexamination	\$																																																																																																																																																																																																																																																		
		112	920*	112	920*	Requesting publication of SIR prior to Examiner action	\$																																																																																																																																																																																																																																																		
		113	1,840 *	113	1,840*	Requesting publication of SIR after Examiner action	\$																																																																																																																																																																																																																																																		
		115	110	215	55	Extension for reply within first month	\$																																																																																																																																																																																																																																																		
		116	400	216	200	Extension for reply within second month	\$																																																																																																																																																																																																																																																		
		117	920	217	460	Extension for reply within third month	\$																																																																																																																																																																																																																																																		
		118	1,440	218	720	Extension for reply within fourth month	\$																																																																																																																																																																																																																																																		
		128	1,960	228	980	Extension for reply within fifth month	\$																																																																																																																																																																																																																																																		
		119	320	219	160	Notice of Appeal	\$																																																																																																																																																																																																																																																		
		120	320	220	160	Filing a brief in support of an appeal	\$																																																																																																																																																																																																																																																		
		121	280	221	140	Request for oral hearing	\$																																																																																																																																																																																																																																																		
		138	1,510	138	1,510	Petition to institute a public use proceeding	\$																																																																																																																																																																																																																																																		
		140	110	240	55	Petition to revive - unavoidable	\$																																																																																																																																																																																																																																																		
		141	1,280	241	640	Petition to revive - unintentional	\$																																																																																																																																																																																																																																																		
		142	1,280	242	640	Utility issue fee (or reissue)	\$																																																																																																																																																																																																																																																		
		143	460	243	230	Design issue fee	\$																																																																																																																																																																																																																																																		
		144	620	244	310	Plant issue fee	\$																																																																																																																																																																																																																																																		
		122	130	122	130	Petitions to the Commissioner	\$																																																																																																																																																																																																																																																		
		123	50	123	50	Petitions related to provisional applications	\$																																																																																																																																																																																																																																																		
		126	180	126	180	Submission of Information Disclosure Statement	\$																																																																																																																																																																																																																																																		
		581	40	581	40	Recording each patent assignment per property (Times number of properties)	\$40.00																																																																																																																																																																																																																																																		
		146	740	246	370	Filing a submission after final rejection (37 C.F.R. §1.129(a))	\$																																																																																																																																																																																																																																																		
		149	740	249	370	For each additional invention to be examined (37 C.F.R. §1.129(b))	\$																																																																																																																																																																																																																																																		
		Other Fee (specify) _____ \$																																																																																																																																																																																																																																																							
		Other Fee (specify) _____ \$																																																																																																																																																																																																																																																							
				** Reduced by Basic Filing Fee Paid																																																																																																																																																																																																																																																					
SUBTOTAL (3)						\$40.00																																																																																																																																																																																																																																																			
2. <input checked="" type="checkbox"/> Payment Enclosed: (CHECK #40643 & #40644) <input checked="" type="checkbox"/> Check <input type="checkbox"/> Credit Card <input type="checkbox"/> Money Order <input type="checkbox"/> Other																																																																																																																																																																																																																																																									
FEE CALCULATION																																																																																																																																																																																																																																																									
BASIC FILING FEE																																																																																																																																																																																																																																																									
<table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th style="width:10%;">Large Entity</th> <th style="width:10%;">Small Entity</th> <th style="width:10%;">Fee Code</th> <th style="width:10%;">Fee (\$)</th> <th style="width:10%;">Fee Code</th> <th style="width:10%;">Fee (\$)</th> <th style="width:40%;">Fee Description</th> <th style="width:10%;">Fee Paid</th> </tr> </thead> <tbody> <tr> <td><input type="checkbox"/></td> <td></td> <td>104</td> <td>740</td> <td>201</td> <td>370</td> <td>Utility filing fee</td> <td>\$740.00</td> </tr> <tr> <td><input type="checkbox"/></td> <td></td> <td>106</td> <td>330</td> <td>206</td> <td>165</td> <td>Design filing fee</td> <td>\$</td> </tr> <tr> <td><input type="checkbox"/></td> <td></td> <td>107</td> <td>510</td> <td>207</td> <td>255</td> <td>Plant filing fee</td> <td>\$</td> </tr> <tr> <td><input type="checkbox"/></td> <td></td> <td>108</td> <td>740</td> <td>208</td> <td>370</td> <td>Reissue filing fee</td> <td>\$</td> </tr> <tr> <td><input type="checkbox"/></td> <td></td> <td>114</td> <td>160</td> <td>214</td> <td>80</td> <td>Provisional filing fee</td> <td>\$</td> </tr> <tr> <td colspan="6" style="text-align: right;">SUBTOTAL (1)</td> <td colspan="2" style="text-align: center;">(\$) 740.00</td> </tr> </tbody> </table>	Large Entity	Small Entity	Fee Code	Fee (\$)	Fee Code	Fee (\$)	Fee Description	Fee Paid	<input type="checkbox"/>		104	740	201	370	Utility filing fee	\$740.00	<input type="checkbox"/>		106	330	206	165	Design filing fee	\$	<input type="checkbox"/>		107	510	207	255	Plant filing fee	\$	<input type="checkbox"/>		108	740	208	370	Reissue filing fee	\$	<input type="checkbox"/>		114	160	214	80	Provisional filing fee	\$	SUBTOTAL (1)						(\$) 740.00																																																																																																																																																																																																		
Large Entity	Small Entity	Fee Code	Fee (\$)	Fee Code	Fee (\$)	Fee Description	Fee Paid																																																																																																																																																																																																																																																		
<input type="checkbox"/>		104	740	201	370	Utility filing fee	\$740.00																																																																																																																																																																																																																																																		
<input type="checkbox"/>		106	330	206	165	Design filing fee	\$																																																																																																																																																																																																																																																		
<input type="checkbox"/>		107	510	207	255	Plant filing fee	\$																																																																																																																																																																																																																																																		
<input type="checkbox"/>		108	740	208	370	Reissue filing fee	\$																																																																																																																																																																																																																																																		
<input type="checkbox"/>		114	160	214	80	Provisional filing fee	\$																																																																																																																																																																																																																																																		
SUBTOTAL (1)						(\$) 740.00																																																																																																																																																																																																																																																			
EXTRA CLAIM FEES																																																																																																																																																																																																																																																									
<table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th style="width:10%;">Total claims</th> <th style="width:10%;">Independent</th> <th style="width:10%;">Multiple Dependent</th> <th style="width:10%;">Extra Claims</th> <th style="width:10%;">Fee from below</th> <th style="width:10%;">Fee Paid</th> </tr> </thead> <tbody> <tr> <td>30</td> <td>4</td> <td></td> <td>10</td> <td>18 00</td> <td>\$180.00</td> </tr> <tr> <td></td> <td></td> <td></td> <td>1</td> <td>84 00</td> <td>\$84.00</td> </tr> <tr> <td colspan="6" style="text-align: center;">** or number previously paid, if greater; For Reissues, see below</td> </tr> </tbody> </table>	Total claims	Independent	Multiple Dependent	Extra Claims	Fee from below	Fee Paid	30	4		10	18 00	\$180.00				1	84 00	\$84.00	** or number previously paid, if greater; For Reissues, see below																																																																																																																																																																																																																																						
Total claims	Independent	Multiple Dependent	Extra Claims	Fee from below	Fee Paid																																																																																																																																																																																																																																																				
30	4		10	18 00	\$180.00																																																																																																																																																																																																																																																				
			1	84 00	\$84.00																																																																																																																																																																																																																																																				
** or number previously paid, if greater; For Reissues, see below																																																																																																																																																																																																																																																									
<table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th style="width:10%;">Large Entity</th> <th style="width:10%;">Small Entity</th> <th style="width:10%;">Fee Code</th> <th style="width:10%;">Fee (\$)</th> <th style="width:10%;">Fee Code</th> <th style="width:10%;">Fee (\$)</th> <th style="width:40%;">Fee Description</th> <th style="width:10%;">Fee Paid</th> </tr> </thead> <tbody> <tr> <td><input type="checkbox"/></td> <td></td> <td>103</td> <td>18</td> <td>203</td> <td>9</td> <td>Claims in excess of 20</td> <td></td> </tr> <tr> <td><input type="checkbox"/></td> <td></td> <td>102</td> <td>84</td> <td>202</td> <td>42</td> <td>Independent claims in excess of 3</td> <td></td> </tr> <tr> <td><input type="checkbox"/></td> <td></td> <td>104</td> <td>280</td> <td>204</td> <td>140</td> <td>Multiple dependent claim, if not paid</td> <td></td> </tr> <tr> <td><input type="checkbox"/></td> <td></td> <td>109</td> <td>84</td> <td>209</td> <td>42</td> <td>** Reissue independent claims over original patent</td> <td></td> </tr> <tr> <td><input type="checkbox"/></td> <td></td> <td>110</td> <td>18</td> <td>210</td> <td>9</td> <td>** Reissue claims in excess of 20 and over original patent</td> <td></td> </tr> <tr> <td colspan="6" style="text-align: right;">SUBTOTAL (2)</td> <td colspan="2" style="text-align: center;">(\$) 264.00</td> </tr> </tbody> </table>	Large Entity	Small Entity	Fee Code	Fee (\$)	Fee Code	Fee (\$)	Fee Description	Fee Paid	<input type="checkbox"/>		103	18	203	9	Claims in excess of 20		<input type="checkbox"/>		102	84	202	42	Independent claims in excess of 3		<input type="checkbox"/>		104	280	204	140	Multiple dependent claim, if not paid		<input type="checkbox"/>		109	84	209	42	** Reissue independent claims over original patent		<input type="checkbox"/>		110	18	210	9	** Reissue claims in excess of 20 and over original patent		SUBTOTAL (2)						(\$) 264.00																																																																																																																																																																																																		
Large Entity	Small Entity	Fee Code	Fee (\$)	Fee Code	Fee (\$)	Fee Description	Fee Paid																																																																																																																																																																																																																																																		
<input type="checkbox"/>		103	18	203	9	Claims in excess of 20																																																																																																																																																																																																																																																			
<input type="checkbox"/>		102	84	202	42	Independent claims in excess of 3																																																																																																																																																																																																																																																			
<input type="checkbox"/>		104	280	204	140	Multiple dependent claim, if not paid																																																																																																																																																																																																																																																			
<input type="checkbox"/>		109	84	209	42	** Reissue independent claims over original patent																																																																																																																																																																																																																																																			
<input type="checkbox"/>		110	18	210	9	** Reissue claims in excess of 20 and over original patent																																																																																																																																																																																																																																																			
SUBTOTAL (2)						(\$) 264.00																																																																																																																																																																																																																																																			

SUBMITTED BY

Complete (if applicable)

Typed or Printed Name

Robert E. Bushnell, Esq.

Reg. Number

27,774

Signature

Date

21 November 2001

Deposit Account User ID

REB/sb

WARNING: Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038.